

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Canceled).

2. (Currently Amended) ~~The~~ An image forming apparatus ~~according to claim 1, comprising:~~

an image input section which inputs an image,
a size selection section which selects a size of a recording medium on
which an image input by the image input section is formed,

a toner image forming section which forms a toner image of the image
input by the image input section on the recording medium with the size selected
by the size selection section,

a fixing section having a fixing member which heats and fixes the toner
image formed on the recording medium by the toner image forming section onto
the recording medium, and a heater divided into a plurality of systems used to
respectively heat a plurality of divided regions of the fixing member, and

a control section which determines allocation power amounts to be
supplied to the respective systems of the heater according to the size of the
recording medium selected by the size selection section and supplies the
allocation power amounts to the respective systems of the heater when the
fixing member is required to be warmed up,

wherein the heater is an induction heater which heats the fixing member by induction heating according to the power supplied from the control section.

Claim 3. (Canceled).

4. (Currently Amended) The An image forming apparatus ~~according to claim 1, which further comprises~~ comprising:

an image input section which inputs an image,

a size selection section which selects a size of a recording medium on which an image input by the image input section is formed,

a toner image forming section which forms a toner image of the image input by the image input section on the recording medium with the size selected by the size selection section,

a fixing section having a fixing member which heats and fixes the toner image formed on the recording medium by the toner image forming section onto the recording medium, and a heater divided into a plurality of systems used to respectively heat a plurality of divided regions of the fixing member, and

a control section which determines allocation power amounts to be supplied to the respective systems of the heater according to the size of the recording medium selected by the size selection section and supplies the allocation power amounts to the respective systems of the heater when the fixing member is required to be warmed up, and

an image rearranging section used to change an output order of images and in which the image input section sequentially inputs a plurality of images, the size selection section selects the size of a recording medium for each of the images input by the image input section, the image rearranging section rearranges the plurality of images input by the image input section in order of small size of the recording medium selected by the size selection section, and the control section determines allocation of power amounts to be supplied to the respective systems of the heater based on the order of the images rearranged by the image rearranging section.

5. (Original) The image forming apparatus according to claim 4, wherein the heater includes a first system which heats a first region of the fixing member to perform a fixing process with respect to a recording medium of a first size and a second system which heats a second region of the fixing member

to perform a fixing process with respect to a recording medium of a second size larger than the recording medium of the first size, the size selection section selects one of the recording medium of the first size and the recording medium of the second size larger than the recording medium of the first size for each of the images input by the image input section, the image rearranging section rearranges the order of the images input by the image input section to put the image to be formed on the recording medium of the first size before the image to be formed on the recording medium of the second *size*, and the control section determines allocation of a power amount to be supplied to the first system of the heater and a power amount to be supplied to the second system of the heater to first set the temperature of the first region to the fixing temperature and then set the temperature of the second region to the fixing temperature.

6. (Original) The image forming apparatus according to claim 5, wherein the toner image forming section forms toner images of the images on recording media of sizes selected by the size selection section in an order rearranged by the image rearranging section and sequentially supplies the recording media having the toner images formed thereon to the fixing section, and the control section determines allocation of a power amount to be supplied to the first system of the heater and a power amount to be supplied to the second system thereof to set the temperature of the second region to the fixing temperature before the recording medium of the second size on which the toner image is formed by the toner image forming section is fed to the fixing section.

7. (Original) The image forming apparatus according to claim 6, wherein the control section determines allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system of the heater based on the number of images for which the recording media of the first size selected by the size selection section are used.

8. (Original) The image forming apparatus according to claim 4, wherein the control section determines power amounts to be continuously supplied to the respective systems of the heater by allocating preset power amounts to the respective systems of the heater based on the order of images rearranged by the image rearranging section.

9. (Original) The image forming apparatus according to claim 4, wherein the control section determines periods of time during which preset power amounts are supplied to the respective systems of the heater based on the order of images rearranged by the image rearranging section.

10. (Original) The image forming apparatus according to claim 4, wherein the control section determines power amounts to be supplied to the respective systems of the heater and periods of time during which the preset power amounts are supplied to the respective systems of the heater based on the order of images rearranged by the image rearranging section.

Claims 11 - 12 (Canceled).

13. (Original) A control method for an image forming apparatus which includes an image input section which inputs an image, a toner image forming section which forms a toner image of the image input by the image input section on a recording medium with a selected one of various sizes, and a fixing section having a fixing member which heats and fixes the toner image formed on the recording medium by the toner image forming section onto the recording medium and a heater divided into a plurality of systems used to respectively heat a plurality of divided regions of the fixing member, comprising:
sequentially inputting a plurality of images by use of the image input section,

selecting sizes of recording media for the images input by the image input section,

rearranging the images input by the image input section in order of small size of the recording medium,

determining allocation power amounts to be supplied to the respective systems of the heater based on the order of the images rearranged by rearranging the images, and

supplying the power amounts allocated to the respective systems of the heater to the respective systems of the heater.

14. (Original) The method for the image forming apparatus according to claim 13, wherein the heater includes a first system which heats a first region of the fixing member to perform a fixing process with respect to a recording medium of a first size and a second system which heats a second region of the fixing member to perform a fixing process with respect to a recording medium of a second size larger than the recording medium of the first size, the selection of the size of the recording medium being to select one of the recording medium of the first size and the recording medium of the second size for each of the images input by the image input section, the image rearranging being to rearrange the order of the images input by the image input section to put the image for which the recording medium of the first size is selected before the image for which the recording medium of the second size is selected, and allocation of a power amount to be supplied to the first system of the heater and a power amount to be supplied to the second system of the heater is determined to first set the temperature of the first region of the fixing member to the fixing temperature and then set the temperature of the second region of the fixing member to the fixing temperature.

15. (Original) The method for the image forming apparatus according to claim 14, wherein allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system

of the heater is determined to set the temperature of the second region of the fixing member to the fixing temperature after the first region of the fixing member was first set to the fixing temperature and before the recording medium of the second size on which the toner image is formed by the toner image forming section is fed to the fixing section.

16. (Original) The method for the image forming apparatus according to claim 15, wherein allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system of the heater is determined based on the number of recording media of the first size selected.

17. (Original) The method for the image forming apparatus according to claim 13, wherein allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system of the heater is determined by allocating power amounts to be continuously supplied to the respective systems of the heater by use of a preset power amount based on the order of the images rearranged by the image rearranging.

18. (Original) The method for the image forming apparatus according to claim 13, wherein allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system of the heater is determined by allocating periods of time in which the preset power amounts are supplied to the respective systems of the heater based on the order of the images rearranged by the image rearranging.

19. (Original) The method for the image forming apparatus according to claim 13, wherein allocation of the power amount to be supplied to the first system of the heater and the power amount to be supplied to the second system of the heater is determined by allocating power amounts to be supplied to the

respective systems of the heater and periods of time in which the preset power amounts are supplied to the respective systems of the heater based on the order of the images rearranged by the image rearranging.